

## North Carolina State University Facilities Services

### University Housekeeping (SOP) #509

#### Covid-19 Human Coronavirus

**Purpose:** To provide specific protocol and guide regarding the proper, safe and CDC approved method of responding to and cleaning up an area that had been identified to have Human Coronavirus contamination.

#### **General Response:**

1. Gather as much information as possible regarding specific location of contaminated areas you are being asked to clean.
2. Review this document and determine the proper process for the situation.
3. Ensure that all staff members involved in the clean-up know and follow the protocol.

#### **Important Reminders:**

- Pay special attention to common-use areas where cross-contamination is most likely to occur
- Focus on surfaces that touch people's bare skin each day and any surfaces that could come into contact with uncovered infections (light fixtures, stair rails, etc.)
- Use disinfectants that are registered by the [EPA](#)
- Disinfectant manufacturers will provide a list of germs on their label that their product can destroy.
- Always read and follow precautions and usage directions before using any cleaning product.
- Secure all required PPE.
- The ERV vehicle is stocked with all items necessary to respond to a Coronavirus contamination.
- After handling infected materials avoid touching the face, especially the mouth; or eating, drinking, smoking, applying lip balm or any facial cosmetics **until proper hand hygiene has been completed. Wash hand immediately after removing your face mask, gown, and gloves (for at least 20 secs).**

- Clorox Bleach:
  - Once opened, bottles of household bleach will lose effectiveness after 30 days.
  - Use a new unopened bottle of bleach every 30 days for preparing diluted disinfectant solutions.
  - Write date opened on a newly opened bottle of bleach
  - Prepare a fresh dilution of bleach (only from bleach bottles that have not been open for more than 30 days) every day of use and discard unused portion
- Always ensure appropriate dilution and (wet) contact time for the environmental disinfectants.
- **READ DISINFECTANT LABEL FIRST**

## Human Coronavirus (COVID-19)

### Condition:

*The Human coronavirus (COVID-19) is a new virus that causes respiratory illness in people and can spread from person-to-person. This virus was first identified during an investigation into an outbreak in Wuhan, China. The first infection with COVID-19 in the United States was reported on January 21, 2020. Patients with COVID-19 have reportedly had mild to severe respiratory illness with symptoms of:*

*Fever*

*Cough*

*Shortness of breath*

### Transmission:

*The exact way the virus is spread is not fully known. With similar coronaviruses (MERS and SARS) person-to-person spread is thought to have happened mainly via respiratory droplets produced when an infected person coughs or sneezes, similar to how influenza and other viruses that cause respiratory illness spread. There also may be some spread when a person touches a surface or object that has virus on it and then touches his or her own mouth, nose, or possibly their eyes. Spread of SARS and MERS between people has generally occurred between close contacts. There is much more to learn about COVID-19 and investigations are ongoing, but the CDC believes at this time that*

*symptoms of COVID-19 Coronavirus may appear in as few as 2 days or as long as 14 after exposure (based on what has been seen previously as the incubation period of MERS viruses.*

*There is currently no vaccine to protect against COVID-19. The best way to prevent infection is to avoid being exposed to this virus.*

### **Cleaning Protocol and Chemicals:**

#### **Required PPE: (According to OSHA)**

- Disposable gloves
- Surgical masks (Optional)
- Eye protection or face shield

#### **Cleaning Materials:**

- Paper towels and/or disposable cloths
- Trigger sprayers
- Trash bags
- Duct tape for sealing waste bags
- Mops and buckets
- Disinfectant

### **Effective disinfectants for Human Coronavirus**

*Note. The disinfectants below are listed in order of preference (as available).*

## **CLOROX HYDROGEN PEROXIDE CLEANER DISINFECTING CLEANER**



**(EPA Reg. No. 67619-24, Wipes 67619-25)**

(Shelf Life = 2 years for RTU & Wipes)

Kills: **Human Coronavirus**, (MRSA,VRE and Norovirus)

#### **Pre-Clean - for heavily soiled areas:**

Completely wet surface with Clorox Disinfecting Cleaner and wipe clean with disposable cloth or paper towel

#### **Disinfection of hard surfaces**

- Spray disinfectant liberally into cloth or paper towel and wipe onto surfaces until surface is thoroughly wet.

- Hard surface should remain wet for at least **30 seconds**
- For food contact surfaces, rinse with potable water

**Sanitize soft surfaces**

- Hold bottle upright 6-8 inches from surface
- Spray until fabric is wet (Do not saturate)
- Let stand for 30 seconds
- Allow to air dry
- **Note. Heavy soil must be removed prior to sanitizing**

Dispose of required PPE and all cleaning materials in a trash bag, seal with duct tape and dispose directly in dumpster outside of the building.

OR



**OXIVIR TB (EPA Reg. No. 70627-56, wipes 70627-60)**

(Shelf Life = 3 years for RTU & Wipes)

Kills: **Human Coronavirus**, (MRSA,VRE and Norovirus)

- Spray disinfectant liberally onto disposable cloth or paper towel and onto contaminated surfaces.
- Wipe all hard surfaces with disposable cloths or paper towels.
- All surfaces must remain visibly wet with disinfectant for at least **1 minute.**
- Any disinfected food contact surfaces must be rinsed with potable water afterwards.
- Dispose of coveralls, gloves and all cleaning materials in a trash bag, seal with duct tape and dispose in trash

**Note: Oxivir Tb cannot be used on glasses, dishes and utensils or therapeutic devices.**

OR



**CLOROX GERMICIDAL BLEACH - Concentrated (EPA Reg. No. 67619-32)**

(Shelf Life = 1 year from manufactured date –Julian date stamped on bottle following 2 digit alpha numeric code) Example: A417109 = 2017 on day 109

Kills: **Human Coronavirus**, (MRSA,VRE and Norovirus)

- Concentrations and mixing instructions
  - Add 1 tablespoon of bleach to 1 quart (4 cups) of water (1:64 dilution).
  - For a larger supply, add ¼ cup of bleach to 1 gallon (16 cups) of water (1:64 dilution).
- Spray directly into cloth and wipe surface

- Surface should remain visibly wet with bleach dilution for at least 5 minutes ...this may require reapplication
  - Rinse thoroughly with potable water.
- Dispose of required PPE and all cleaning materials in a trash bag, seal with duct tape and dispose directly in dumpster outside of the building.

OR



**VIREX II 256** (EPA Reg. No. 70627-24)

(Shelf Life of concentrate = 3 years)

Kills: **Human Coronavirus**, (MRSA, and VRE) – *Not effective against Norovirus*

- For use only in special circumstances where it is not hard to keep surfaces wet for the 10-minute contact time.
- Spray on cloth and directly on contaminated areas
- Surface must remain visibly wet for 10 minutes contact time (surface may need to be rewet)
- Wipe with disposable cloth or paper towel

Dispose of PPE and all cleaning materials in a trash bag, seal with duct tape and dispose in trash dumpster outside of the building